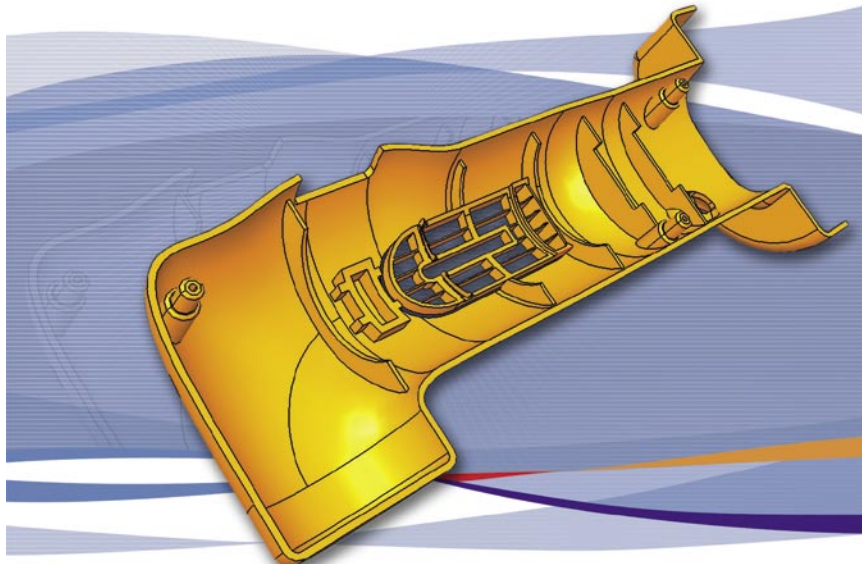


Grow with PLM

Molded Part Engineering Profile Pack

Part of IBM's express portfolio of offerings for medium-sized businesses



Focus Industries

- **Consumer Goods**
- **Consumer Packaged Goods**
- **Electrical and Electronics**
- **Automotive Supply Chain**
- **Aerospace Supply Chain**

In order to be able to respond immediately to changing market requirements, product development must be done in a lean, responsive digital design and modelling environment. When market conditions change fast, being able to provide a quick response with new design alternatives is a key strategic advantage.

The Molded Part Engineering Profile Pack offers your designers a set of products, which covers the full plastic parts design process. It offers comprehensive advanced surface creation tools, supported by a powerful healing assistant, which improves the compatibility of data imported from other CAD systems. This Profile Pack is also greatly empowered by structural engineering analysis and rapid prototyping tools.

The Functional Molded Part capability is the backbone of Molded Part Engineering. Industry-specific functional features allow users to develop thin parts with a high level of productivity and flexibility. This capability differs from most other CAD systems in that one operation can perform a complex modelling task that would usually require several steps.

For instance, a grill can be created in one interaction instead of defining complex pattern-based openings. This all-in-one concept saves considerable time when designing a complex form.

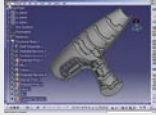
The power of Functional Molded Part, combined with the needed advanced surface design capabilities, allows your designers to define and capture the unique behaviour and characteristics of molded products in much less time than with conventional CAD design tools. This speeds up product development and improves manufacturability.

The Molded Part Engineering Profile Pack helps you to:

- *Design molded parts right the first time with enhanced engineering applications thus reducing the number of iterations with the mold makers.*
- *Explore more design alternatives in the development of innovative products where complexity is constantly increasing.*
- *Reduce time to process design changes in a concurrent engineering environment.*
- *Reduce time to market with early prototypes.*
- *Maximise collaboration of designers with different profiles acting at different stages in the design phase.*

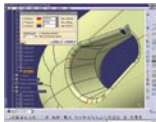
Molded Part Engineering Products

These are the products available to be included in the Molded Part Engineering Profile Pack. Optionally, additional Profile Packs can be ordered for any users who may perform a broader role in the organisation or individual products can be added from the standard Product Lifecycle Management (PLM) software catalogue as long as all pre-requisite products are also included in the order.



CATIA – Functional Molded Part (FM1)

Design molded parts with great productivity and flexibility through advanced functional features.



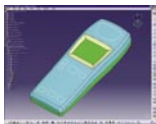
CATIA – Healing Assistant (HA1)

Check the validity of imported geometry against CATIA V5 modelling criteria in order to recover surfaces by improving the topology and geometry of analysed objects.



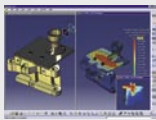
CATIA – STL Rapid Prototyping (TL1)

Help to generate and repair meshes to obtain machinable mock-ups. The STL files created are then fed into rapid prototyping machines for a quick and inexpensive way to create a prototype.



CATIA – Generative Shape Design (GS1)

Create in-context, specification-driven shapes based on a combination of wireframes and extensive multiple surface features.



CATIA – Generative Part Structural Analysis (GPS)*

Perform transparent and automatic structural analysis to promote up-front CAE during the design phase.



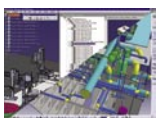
CATIA – 3D Functional Tolerancing & Annotation (FT1)

Define and manage tolerance specifications and annotations on 3D parts.



CATIA – Free Style Shaper (FS1)

Help designers create styled shapes and surfaces while ensuring the manufacturability of a plastic part by digitally simulating whether or not the part can be easily removed from the mold.



CATIA – COM 1 to 2 Extension (C12)

Give access to CATIA P2 products from a CATIA P1 configuration for broad scalability and wider business process coverage.

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* Requires CATIA – COM 1 to 2 Extension (C12)